

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended) An optical fuse comprising:

a medium constituting a structure in which a light-emitting end of a first optical waveguide is coupled to a light-incident end of a second optical waveguide across said medium, said medium being transparent to light passing through said structure; and

a light-absorbing body adapted to absorb a portion of said light and generate heat or ignite to cause irreversible change to said medium, said light-absorbing body being disposed in contact with an outer peripheral surface of said medium in such a manner as to allow a part of light emitted from said light-emitting end into said medium to reach said light-absorbing body.

2. (Original) The optical fuse as defined in claim 1, wherein said medium is formed to allow a cross-sectional area orthogonal to a propagation direction of light therein to have a minimum value at a position located in a zone of said medium interposed between said light-emitting end and said light-incident end.

3. (Original) The optical fuse as defined in claim 1 or 2, wherein at least one of said first and second light waveguides consists of an optical fiber, and said structure includes a retention portion for fixing said optical fiber, said retention portion being disposed away from an interface between said medium and said light-emitting or light-incident end comprised of said

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optical fiber, in such a manner as to allow a zone of said optical fiber between said retention portion and said interface to be bent.

4 and 5. (Cancelled).

6. (New) The optical fuse as defined in claim 1, wherein said irreversible change is any of selected from the group of deformation in said structure, crystallization if said medium is an amorphous material and explosion of said medium if said light-absorbing body is an explosive.